Data from the Commercial Fishery for Lake Whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1999/00 to 2001/02

C.J. Read and W.E.F. Taptuna

Central and Arctic Region
Department of Fisheries and Oceans
Winnipeg, Manitoba R3T 2N6

2003

Canadian Data Report of Fisheries and Aquatic Sciences 1111

Fisheries and Oceans Pêches et Oceans

Canada

103-04800/

Canadian Data Report of

Fisheries and Aquatic Sciences 1111

2003

DATA FROM THE COMMERCIAL FISHERY FOR LAKE WHITEFISH, *Coregonus clupeaformis* (Mitchill), ON GREAT SLAVE LAKE, NORTHWEST TERRITORIES, 1999/00 to 2001/02

by

C.J. Read and W.E.F. Taptuna

Fisheries and Oceans Canada
Freshwater Institute
501 University Crescent
Winnipeg, MB
R3T 2N6

© Her Majesty The Queen in Right of Canada, 2003

Cat. No. Fs 97-13/1111E ISSN 0706-6465

Correct citation for this report is:

Read, C.J. and W.E.F. Taptuna. 2003. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1999/00 to 2001/02. Can. Data Rep. Fish. Aquat. Sci. 1111: v + 54 p.

TABLE OF CONTENTS

	Page
ABSTRACT/RÉSUMÉ	v
INTRODUCTION	1
STUDY AREA	1
DESCRIPTION OF THE FISHERY	1
MATERIALS AND METHODS	2
ACKNOWLEDGEMENTS	3
REFERENCES	3

LIST OF FIGURES

Figure		Page
1	Map of Great Slave Lake showing the administrative areas and quotas, areas closed to commercial fishing and the location of fish plants	6

LIST OF TABLES

Table		Page
1	Commercial quotas in effect on Great Slave Lake during the 1975/76 to 2001/02 seasons	7
	Total production of commercial species by administrative area:	
2	1999/00	8
3	2000/01	8
4	2001/02	9
	Production of whitefish and trout from each administrative area for winter and summer:	
5	1999/00	9
6	2000/01	10
7	2001/02	10
8	Annual production of commercial species, Great Slave Lake, 1972/73 to 2001/02	11
9	Weight composition by market weight intervals for whitefish from commercial plant samples on Great Slave Lake, 1999/00	12
10	Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1999/00	13
	Age composition of commercial whitefish for each seasonal period for 1999/00:	
11	area IW	14
12	area IE	15
13	area II	16
14	area III	17
15	area IV	18
16	Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1999/00	19
	Length composition of commercial whitefish for each seasonal period for 1999/00:	
17	area IW	20
18	area IE	21
19	area II	22
20	area III	23
21	area IV	24
22	Weight composition by market weight intervals for whitefish from commercial plant samples on Great Slave Lake, 2000/01	25
23	Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 2000/01	26
	Age composition of commercial whitefish for each seasonal period for 2000/01:	
24	area IW	27
25	area 1E	28
26	area II	29
27	area III	30
28	area IV	31
29	area V	32
30	Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 2000/01	33

Table		Page
	Length composition of commercial whitefish for each seasonal period for 2000/01:	
31	area IW	34
32	area IE	35
33	area II	36
34	area III	37
35	area IV	38
36	area V	39
37	Weight composition by market weight intervals for whitefish from commercial plant samples on Great Slave Lake, 2001/02	40
38	Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 2001/02	41
	Age composition of commercial whitefish for each seasonal period for 2001/02:	
39	area IW	42
40	area IE	43
41	area II	44
42	area III	45
43	area IV	46
44	area V	47
45	Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 2001/02	48
	Length composition of commercial whitefish for each seasonal period for 2001/02:	
46	area IW	49
47	area IE	50
48	area II	51
49	area III	52
50	area IV	53
51	area V	54

ABSTRACT

Read, C.J. and W.E.F. Taptuna. 2003. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1999/00 to 2001/02. Can. Data Rep. Fish. Aquat. Sci. 1111: v + 54p.

Data from the fish plant sampling program on Great Slave Lake are presented. Production figures for lake whitefish and other species are shown. A total of 4081 lake whitefish were sampled for length, weight and age.

Key words: commercial fishing; fishery management; monitoring.

RÉSUMÉ

Read, C.J. and W.E.F. Taptuna. 2003. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1999/00 to 2001/02. Can. Data Rep. Fish. Aquat. Sci. 1111: v + 54p.

Le rapport présente des données sur le programme d'échantillonnage à l'usine de transformation du poisson du Grand lac des Esclaves. On y donne les chiffres de production pour le grand corégone et d'autres espèces. Les données sur l'âge, la longueur et le poids ont été recueillies à partir d'un échantillon de 4081 grands corégones.

Mots-clés: pêche commerciale; gestion des pêches; contrôle.

INTRODUCTION

Commercial fishing first began on Great Slave Lake in 1945. Since then the fishery has been monitored annually for total catch; however, few studies were conducted on the effects of exploitation on the stocks of the commercial species (Rawson 1951, 1953a; Keleher 1972; Kennedy 1956) until the 1970's.

In 1971, Fisheries and Marine Service (now Fisheries and Oceans, DFO) began a long term stock assessment and monitoring program designed to collect information considered essential for the sound management of the Great Slave Lake commercial fishery. These programs are consistent with the recommendation of the Great Slave Lake Working Party (1969) outlined in Roberge *et al.* (1982).

In order to meet these objectives, a three-component field study was implemented including fish plant sampling, fishery observations and experimental gillnetting. Results of this work for the years 1972 to 1998/99 have been described by Bond (1974a, b, 1975a, b), Bond and Turnbull (1973), Moshenko et al. (1978, 1981), Moshenko and Low (1978a, b, 1979, 1980) Roberge et al. (1982, 1984), Low and Read (1987), Low et al. (1989) , Low and Read (1993), Read and Taptuna (1995, 1997 and 2001) and Day (2002).

Only the fish plant sampling component was carried out for the three years of data presented in this report.

STUDY AREA

Great Slave Lake lies in the southwest corner of the District of Mackenzie, Northwest Territories (Fig. 1). It is the fifth largest lake in North America, with a surface area of 27 195 km^2 and a drainage area of 985 300 km^2. Stretching 440 km from its extreme east end to the outlet of the Mackenzie River, the lake straddles two physiographic regions. The northeast shore of the north arm and the east arm lie within the Precambrian Shield and have irregular, precipitous margins. The western portion of the lake overlies the alluvial plain known as the Mackenzie Lowlands and has few islands and gently sloping shores. The rivers entering the lake from the shield are cold, clear and rapidly flowing while those entering from the south are slow flowing brown water streams laden with silt during spring and early summer. While the western basin has a maximum depth of approximately 165 m and a mean depth of 42 m, a depth of 625 m has been recorded in the east arm (Rawson 1950). Physical and biological characteristics of the lake have been described in detail by Rawson (1950, 1951, 1953a, b).

DESCRIPTION OF THE FISHERY

Great Slave Lake has been fished commercially since 1945. During the 1950s annual production of lake whitefish *Coregonus clupeaformis* (Mitchill) and lake trout, *Salvelinus namaycush* (Walbaum) averaged 2.9 million kg as the large accumulated stock was exploited. Since the 1950s commercial production of both species has decreased annually and whitefish and lake trout have reacted differently to exploitation (Keleher 1972). The commercial fishery on the west end of the lake has now stabilized and is being managed primarily for whitefish production with secondary consideration for lake trout, the latter being unable to withstand commercial gillnetting. Inconnu are protected by seasonal closures of inshore areas where they tend to congregate.

Gill nets have been the sole means of exploitation by the commercial fishery since its inception. The legal minimum mesh size was 139 mm stretched mesh until regulation changes in 1977 allowed the use of 133 mm mesh as the legal minimum mesh size. In November 1997 the legal mesh size in areas 1E, 2, 3 and 4 was changed to 127 mm stretched mesh. In areas 1W and IV the legal mesh size was reduced from 133mm to 127mm in May 2000 and November 2000, respectively. There has been no restriction since 1961 on the number of nets a fisherman may use. Almost the entire lake has been open to commercial fishing at some point in the history of the fishery, although certain areas have been closed to protect subsistence and sport fisheries (Fig. 1 and Northwest Territories Fishery Regulations 1985). The east arm of Great Slave Lake (Area VI) was completely closed to commercial fishing in 1974 and is being managed exclusively for subsistence and sport fishing (Moshenko and Gillman 1978).

There are at least 25 fish species in the

lake (Keleher 1972) of which only five are of commercial importance. The major commercial species in decreasing order of importance are: lake whitefish, *Coregonus clupeaformis* (Mitchill); lake trout, *Salvelinus namaycush* (Walbaum); inconnu, *Stenodus leucichthys nelma* (Pallas); northern pike, *Esox lucius* (Linnaeus); and walleye (pickerel), *Stizostedion vitreum vitreum* (Mitchill). Cisco, *Coregonus* spp., burbot, *Lota lota* (Linnaeus) and longnose sucker, *Catostomus catostomus* (Forster) may constitute up to 40% or more of the total catch; however, most are culled on the lake due to a soft market demand.

The commercial portion of the lake is divided into six administrative areas for management purposes and a portion of the total annual quota is allotted to each area (Table 1). The annual quota is based on the period commencing 1 November and terminating on the following 31 October and applies to the combined catch for both the winter and summer fisheries. Previous to the 1990/91 season the entire quota was based on whitefish and trout combined. Starting in the 1990/91 season the quota in administrative areas 1W, 1E, II, III, and IV was based on whitefish only, while the area V quota remained combined for whitefish and trout. Other species such as inconnu are managed on an individual basis by closing waters where they are vulnerable to over exploitation. More detailed histories of the commercial fishery on Great Slave Lake are given by Kennedy (1956), Keleher (1972) and Bond and Turnbull (1973). The description of the winter and summer fisheries is summarized by Moshenko et al. (1978).

MATERIALS AND METHODS

Harvest Records And Sampling Procedures

Production summaries of the landings by species by administrative area were compiled from the Freshwater Fish Marketing Corporation (FFMC) sales slips by Fisheries and Oceans staff in Hay River. Harvest tables were taken from these figures.

Production values presented in this report (Tables 2-8) include whitefish culls at the plant but do not include an estimate of deteriorated whitefish discarded on the lake. Fishers cull these fish as the nets are lifted but no record is made of the numbers or estimated weight. Fish which do not meet the market size and quality requirements are further culled by graders at the fish plant and the weight is recorded on the sales slip. (The production values in the previous report, Read and Taptuna, 2001 did not include plant or lake culls.)

The following table lists the factors used to convert various species and forms to round weight:

Species	Form	Conversion Factor
Whitefish	dressed	x 1.17
Pickerel	dressed	x 1.22
	headless dressed	x 1.39
Trout	dressed	x 1.21
	headless dressed	x 1.53
Pike	dressed	x 1.22
	headless dressed	x 1.53
Inconnu	dressed	x 1.16
	headless dressed	x 1.35

Commercial landings of whitefish were sampled from each of the six administrative areas fished during the sample periods. Sampling frequency was based on a schedule as follows:

Winter - December 1 to March 30
Summer - June 10 to July 15
Fall - September 1 to October 15

Some deviations from this schedule resulted because of the unavailability of samples within this time frame. The deviations and resulting season designations are as follows:

1999/00	Area II	Aug 26	Fall
2000/01	Area II	Aug 25	Fall
2001/02	Area II	Aug 14	Fall
	Area IV	Aug 24	Fall

Boxes of fish were selected at random from the catches of various harvesters as they arrived at the plant. All whitefish in the box, up to a maximum of 70 fish per individual harvester, were sampled. Thus, the sample of 200 whitefish should have been taken from at least three different harvesters. An additional 10 fish were sampled to compensate for scale samples which were unsuitable for aging. The fish were measured for fork length (to the nearest 1 mm) and dressed weight (to the nearest 5 g). Scales were taken from the left side of the fish from the area just above the lateral line and below the dorsal fin. In the laboratory every second sample

was selected for aging.

Biological Data

The scale age of whitefish was determined by counting the number of completed annuli. That is, an age 10 fish was in its eleventh year.

SAS (Version 8.0) for Windows was used to generate the age and length tables.

ACKNOWLEDGMENTS

The authors wish to thank the commercial fish harvesters and the staff of the Freshwater Fish Marketing Corporation on Great Slave Lake for their cooperation. Appreciation is extended to the Métis Nation, who supplied DFO with summer assistants. Persons assisting on Great Slave Lake were G. Lafferty, D. Laroque, K. Thomas, M. Low, G. Norrad and S. Buckley. Thanks also to P. Taylor and to Fishery Officers D. Arnold and G. Fillatre, for providing logistic support and assisting with biological sampling at the fish stations.

REFERENCES

BOND, W.A. 1974a. The Great Slave Lake commercial fishery, summer, 1973. Can. Fish. Mar. Serv. Tech. Rep. Ser. CEN/T-74-8: vii + 38 p.

BOND, W.A. 1974b. Data on ciscoes, burbot, and longnose suckers from Great Slave Lake, Northwest Territories, 1973. Can. Fish. Mar. Serv. Data Rep. Ser. CEN/D-74-3: vi + 44 p.

BOND, W.A. 1975a. Commercial fishery data from Great Slave Lake, N.W.T., 1974. Can. Fish. Mar. Serv. Data Rep. Ser. CEN/D-75-5: vi + 24 p.

BOND, W.A. 1975b. Results of an experimental gill netting program at the west end of Great Slave Lake, N.W.T. during summer, 1974. Can. Fish. Mar. Serv. Data Rep. Ser. CEN/D-75-7: viii + 83 p.

BOND, W.A., and T.D. TURNBULL. 1973. Fishery investigations at Great Slave Lake, Northwest Territories 1972. Can. Fish. Mar. Serv. Tech. Rep. Ser. CEN/T-73-7: vii + 78 p.

DAY, A.C. 2002. Predicted impact of reducing gillnet mesh size on the efficiency of the Great Slave Lake commercial lake whitefish, *Coregonus clupeaformis* (Mitchell), fishery, Northwest Territories. Can.Tech. Rep. Fish. Aquat. Sci. 2440: vii + 45 p.

DEPARTMENT OF FISHERIES AND OCEANS. 1993. Annual Summary of Fish and Marine Mammal Harvest Data for the Northwest Territories, Volume 9, 1996-1997: xii + 72 p.

GREAT SLAVE LAKE WORKING PARTY. 1969. Unpublished report. 20 p. (Copy available from C.J. Read, Freshwater Institute, Winnipeg, MB.)

KELEHER, J.J. 1972. Great Slave Lake: effect of exploitation on salmonid community. J. Fish. Res. Board Can. 29: 741-753.

KENNEDY, W.A. 1956. The first ten years of commercial fishing on Great Slave Lake. Bull. Fish. Res. Board Can. 107: 58 p.

LOW, G., and C.J. READ. 1987. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1983 and 1984. Can. Data Rep. Fish. Aquat. Sci. 641: v + 38 p.

LOW, G., C.J. READ, and D.S. WATSON. 1989. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1985, 1986 and 1987. Can. Data Rep. Fish. Aquat. Sci. 761: v + 51 p.

LOW, G., C.J. READ. 1993. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1988, 1989 and 1990. Can. Data Rep. Fish. Aquat. Sci. 898: v + 54 p.

MOSHENKO, R.W., L.W. DAHLKE, and G. LOW. 1978. Data from the commercial fishery for lake whitefish, *Coregonus clupea formis* (Mitchill), on Great Slave Lake, Northwest Territories, 1977. Can. Fish. Mar. Serv. Data Rep. 101: v + 30 p.

MOSHENKO, R.W., and D.V. GILLMAN. 1978. Creel census and biological investigation on lake trout, *Salvelinus namaycush* (Walbaum), from Great Bear and Great Slave lakes, Northwest Territories, 1975-76. Can. Fish. Mar. Serv. Manuscr. Rep. 1440: v + 37 p.

MOSHENKO, R.W., and G. LOW. 1978a. Lake whitefish, *Coregonus clupeaformis* (Mitchill), from the commercial fishery of Great Slave Lake, Northwest Territories, 1975-76. Can. Mar. Fish. Serv. Data Rep. 53: iv + 16 p.

MOSHENKO, R.W., and G. LOW. 1978b. An experimental gillnetting program on Great Slave Lake, Northwest Territories, 1977.
Can. Fish. Mar. Serv. Data Rep. 102: iv + 51 p.

MOSHENKO, R.W., and G. LOW. 1979. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1978. Can. Fish. Mar. Serv. Data Rep. 139: v +29p.

MOSHENKO, R.W., and G. LOW. 1980. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1979. Can. Data Rep. Fish. Aquat. Sci. 194: v + 29 p.

MOSHENKO, R.W., G. LOW, and C.J. READ. 1981. Data from the commercial fishery for lake whitefish, *Coregonus clupea formis* (Mitchill), on Great Slave Lake, Northwest Territories, 1980. Can. Data Rep. Fish. Aquat. Sci. 305: v + 30 p.

NORTHWEST TERRITORIES FISHERY REGULATIONS. 1985. P.C. 1974-1106, amended P.C. 1985-2352 August 28, 1985.

RAWSON, D.S. 1950. The physical limnology of Great Slave Lake. J. Fish. Res. Board Can. 8: 1-66.

RAWSON, D.S. 1951. Studies of fish of Great Slave Lake. J. Fish. Res. Board Can. 8: 207-240.

RAWSON, D.S. 1953a. The standing crop of plankton in lakes. J. Fish. Res. Board Can. 10: 224-237.

RAWSON, D.S. 1953b. The bottom fauna of Great Slave Lake. J. Fish. Res. Board Can. 10: 486-520.

READ, C.J., AND W.E.F. TAPTUNA. 1995. Data from the commercial fishery for lake whitefish, *Coregonus clupea formis* (Mitchill), on Great Slave Lake, Northwest Territories, 1990/91 to 1992/93. Can. Data Rep. Fish. Aquat. Sci. 957: v + 46 p.

READ, C.J., AND W.E.F. TAPTUNA. 1997. Data from the commercial fishery for lake whitefish, *Coregonus clupea formis* (Mitchill), on Great Slave Lake, Northwest Territories, 1993/94 to 1995/96. Can. Data Rep. Fish. Aquat. Sci. 1019: v + 32 p.

READ, C.J., AND W.E.F. TAPTUNA. 2001. Data from the commercial fishery for lake whitefish, *Coregonus clupea formis* (Mitchill), on Great Slave Lake, Northwest Territories, 1996/97 to 1998/99. Can. Data Rep. Fish. Aquat. Sci. 1081: v + 45 p.

RICKER, W.E. 1975. Computations and interpretations of biological statistics of fish populations. Bull. Fish. Res. Board Can. 119: 382 p.

ROBERGE, M.M., G. LOW, and C.J. READ. 1982. Data from the commercial fishery for lake whitefish, *Coregonus clupeaf ormis* (Mitchell), on Great Slave Lake, Northwest Territories, 1981. Can. Data Rep. Fish. Aquat. Sci. 335: iv + 21 p.

ROBERGE, M.M., G. LOW, and C.J. READ. 1984. Data from the commercial fishery for lake whitefish, *Coregonus clupea formis* (Mitchill), on Great Slave Lake, Northwest Territories, 1982. Can. Data Rep. Fish. Aquat. Sci. 437: iv + 24 p.

ROBSON, D.S., and D.G. CHAPMAN. 1961. Catch curves and mortality rates. Trans. Am. Fish. Soc. 90(2): 181-189.

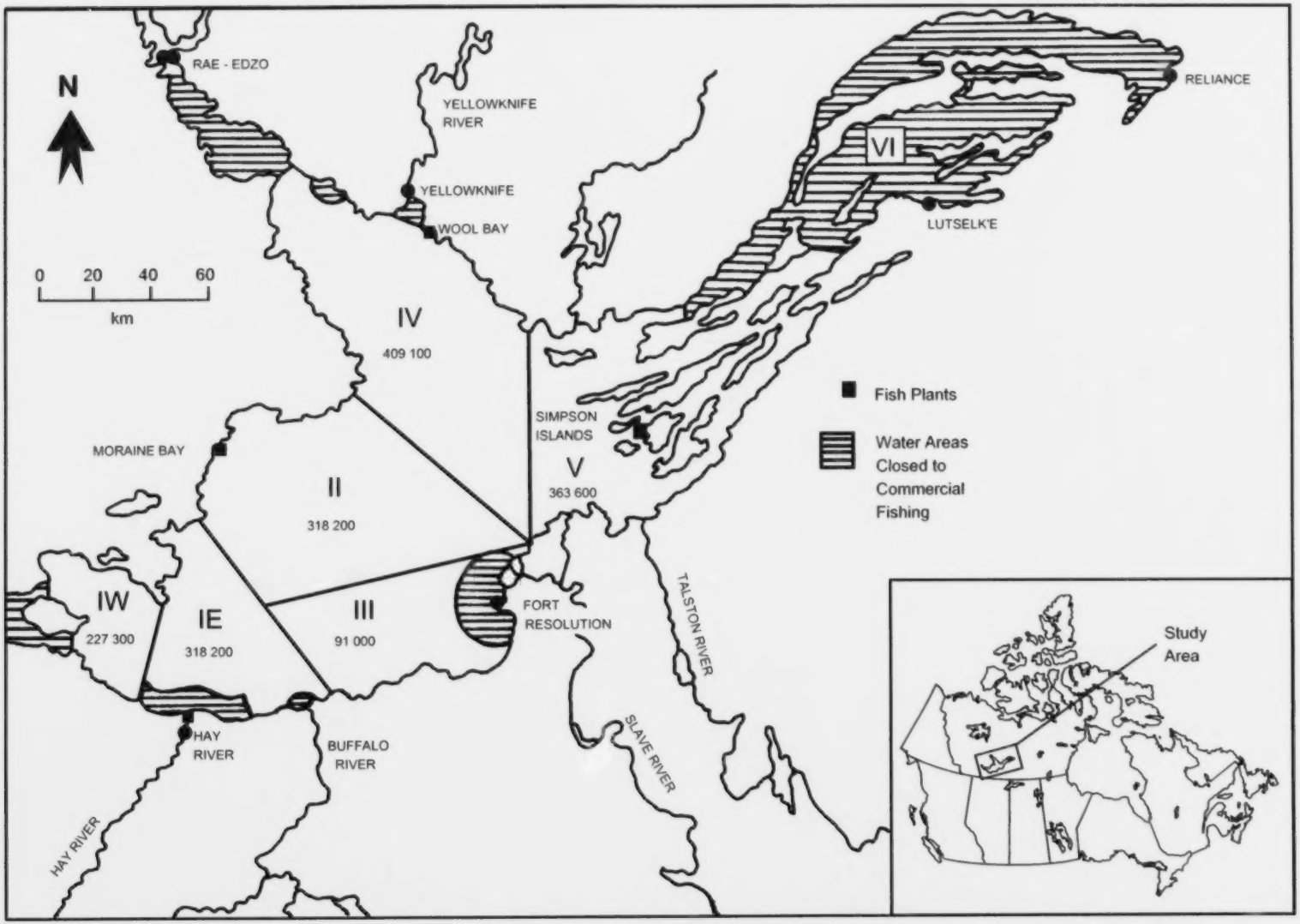

Fig. 1. Map of Great Slave Lake showing the administrative areas and quotas, areas closed to commercial fishing and the location of the fish plants. (The Simpson Islands fish plant has not been in operation since 1991.)

Table 1. Commercial quotas in effect on Great Slave Lake during the 1975/76 to 2001/02 seasons.

Year	Commercial Quota of Whitefish and Trout [1] (kg round weight)						
	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
1975-76	227,273	318,181	681,819	Nil	622,727	325,000	2,175,000
1976-77	227,273	318,181	318,181	Nil	409,091	272,729	1,545,455
1977-78	227,273	318,181	318,181	Nil	409,091	272,729	1,545,455
1978-79	227,273	318,181	318,181	45,455	409,091	295,455	1,613,636
1979-80	227,273	318,181	318,181	45,455	409,091	363,637	1,681,818
1980-81	227,300	318,200	318,200	45,500	409,100	363,600	1,681,900
1981-82	227,300	318,200	318,200	79,500	409,100	363,600	1,715,900
1982-85	227,300	318,200	318,200	45,500	409,100	363,600	1,681,900
1985-86	227,300	318,200	318,200	70,000	409,100	363,600	1,706,400
1986-90	227,300	318,200	318,200	45,500	409,100	363,600	1,681,900
1990-91[2]	227,300	318,200	318,200	91,000	409,100	363,600	1,727,400
1991-96	227,300	318,200	318,200	91,000	409,100	363,600	1,727,400
1996-97[3]	247,300	318,200	318,200	91,000	409,100	363,600	1,747,400
1997-02	227,300	318,200	318,200	91,000	409,100	363,600	1,727,400

[1] Season runs from November 1 of one year to October 31 of next year.
[2] Quotas previous to the 1990/91 season were a combined quota for whitefish and trout. Starting in the 1990/91 season the quota for Area V remained a combined quota; for other areas the quota was for whitefish only.
[3] The quota for Area1W was increased for the 1996/97 season only. (The total for 1996/97 is incorrect in Read and Taptuna, 2001.)

Table 2. Total production of commercial species (kg round weight) by administrative area, 1999/00.

	Production from each Administration Area						
Species	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	190,240	149,588	137,521	37,851	294,658	24,772	834,630
Trout	9,484	11,557	8,161	58	3,653	6,214	39,127
Pike	59,806	15,289	3,243	5,288	26,185	1,876	111,687
Inconnu	1,806	6,550	571	7,955	6,838	13,570	37,290
Walleye	2,802	1,697	145	3,332	2,916	0	10,892
Burbot	2,084	13,592	22,828	8,881	19,069	399	66,853
Sucker	1,377	4,003	1,804	174	527	0	7,885
Total	267,599	202,276	174,273	63,539	353,846	46,831	1,108,364

Note: The Area V quota is for whitefish and trout: other quotas are for whitefish only and other species caught are considered by-catch.

Table 3. Total production of commercial species (kg round weight) by administrative area, 2000/2001.

	Production from each Administration Area						
Species	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	225,427	222,878	71,264	36,997	327,770	21,878	906,214
Trout	13,792	34,079	3,037	163	19,865	4,299	75,235
Pike	41,112	4,647	1,342	2,300	23,925	2,274	75,600
Inconnu	1150	6,342	136	2,526	9,891	6,010	26,055
Walleye	683	4,791	228	2,432	10,234	2,958	21,326
Burbot	0	98	0	0	0	0	98
Sucker	465	1,474	1	0	8,177	0	10,118
Total	282,629	274,309	76,008	44,418	399,862	37,419	1,114,645

Note: The Area V quota is for whitefish and trout: other quotas are for whitefish only and other species caught are considered by-catch.

Table 4. Total production of commercial species (kg round weight) by administrative area, 2001/2002.

Species	Production from each Administration Area						
	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	225,732	129,981	283,208	36,330	242,723	24,944	942,918
Trout	9,538	17,298	6,632	388	4,217	22,026	60,099
Pike	37,713	3,367	19,542	10,304	30,098	1,889	102,913
Inconnu	1,438	15,221	1,885	5,752	6,486	19,331	50,113
Walleye	815	4,843	202	2,302	19,061	502	27,725
Burbot	1,126	3,548	18,897	279	9,456	1,118	34,424
Sucker	193	281	411	720	1,592	0	3,197
Total	276,555	174,539	330,777	56,075	313,633	69,810	1,221,389

Note: The Area V quota is for whitefish and trout: other quotas are for whitefish only and other species caught are considered by-catch.

Table 5. Production of whitefish and trout (kg round weight) from each administrative area for winter and summer, 1999/00.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	77,509	1,374	112,731	8,110	190,240	9,484	199,724
IE	68,494	5,152	81,094	6,405	149,588	11,557	161,145
II	7,844	404	129,677	7,757	137,521	8,161	145,682
III	0	0	37,851	58	0	37,909	37,909
IV	105,297	1,945	189,361	1,708	294,658	3,653	298,311
V	21,828	2,536	2,944	3,678	24,772	6,214	30,986
Total	280,972	11,411	553,658	27,716	796,779	76,978	873,757

Note: The Area V quota is for whitefish and trout; other quotas are for whitefish only and other species caught are considered by-catch.

Table 6. Production of whitefish and trout (kg round weight) from each administrative area for winter and summer, 2000/01.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	136,948	7,889	88,479	5,903	225,427	13,792	239,219
IE	66,197	2,614	156,680	31,465	222,878	34,079	256,957
II	15,201	247	56,063	2,790	71,264	3,037	74,301
III	0	0	36,997	163	36,997	163	37,160
IV	116,951	2,506	210,820	17,359	327,770	19,865	347,635
V	14,860	193	7,018	4,106	21,878	4,299	26,177
Total	350,157	13,449	556,057	61,786	906,214	75,235	981,449

Note: The Area V quota is for whitefish and trout; other quotas are for whitefish only and other species caught are considered by-catch.

Table 7. Production of whitefish and trout (kg round weight) from each administrative area for winter and summer, 2001/02.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	99,450	1,314	126,282	8,224	225,732	9,538	235,270
IE	49,068	787	80,913	16,511	129,981	17,298	147,279
II	112,698	890	170,510	5,742	283,208	6,632	289,840
III	9,033	12	27,297	376	36,330	388	36,718
IV	111,958	448	130,765	3,769	242,723	4,217	246,940
V	19,662	14,698	5,282	7,328	24,944	22,026	46,970
Total	401,869	18,149	541,049	41,950	942,918	60,099	1,003,017

Note: The Area V quota is for whitefish and trout; other quotas are for whitefish only and other species caught are considered by-cat

Table 8. Annual production (X 1000 kg, round weight) of commercial species, Great Slave Lake, 1972/73 to 2001/02.

Year	Whitefish	Trout	Pike	Inconnu	Walleye	Burbot	Sucker	Total Whitefish & Trout	Total All Species
1972-73	1,004	92	155	103	17			1,096	1,371
1973-74	973	111						1,084	1,084
1974-75	921	99	96	95	10			1,020	1,221
1975-76	975	83	103	77	9			1,058	1,247
1976-77	1,172	108	118	86	11			1,280	1,495
1977-78	1,107	105	157	153	13			1,212	1,535
1978-79	1,065	121	129	153	6			1,186	1,474
1979-80	1,178	122	199	65	19			1,300	1,583
1980-81	1,097	85	151	43	4			1,182	1,380
1981-82	1,139	75	166	23	8			1,214	1,411
1982-83	899	61	115	16	5			960	1,096
1983-84	863	50	108	47	15			913	1,083
1984-85	876	110	155	72	13			986	1,226
1985-86	1,219	107	130	62	12			1,326	1,530
1986-87	1,310	127	140	74	14			1,437	1,665
1987-88	1,438	65	113	74	20			1,503	1,710
1988-89	1,451	137	170	84	20			1,588	1,862
1989-90	1,317	87	204	69	34			1,404	1,711
1990-91	1,452	87	187	54	12	34	7	1,539	1,833
1991-92	1,215	48	162	27	4	>.1	2	1,263	1,458
1992-93	1,202	62	143	43	5	17	0	1,264	1,472
1993-94	1,161	76	139	20	20	>1	0	1,237	1,416
1994-95	1,097	95	224	36	10	6	>.5	1,192	1,468
1995-96	1,153	123	131	54	54	68	8	1,276	1,591
1996-97	1,033	104	133	69	19	67	14	1,137	1,439
1997-98	908	93	147	30	13	48	13	1,001	1,252
1998-99	856	85	125	27	14	138	12	941	1,257
1999-00	835	39	112	37	11	67	8	874	1,109
2000-01	906	75	76	26	21	>.01	10	981	1,114
2001-02	943	60	103	50	28	34	3	1,003	1,221

Season runs from November 1 of one year to October 31 of next year.
Burbot and inconnu were not marketed until the 1990/91 season

Table 9. Weight composition by market weight intervals for whitefish from commercial plant samples on Great Slave Lake, 1999/00.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	-	-	-	-	1	-	-	-	1	-	-	-	2	-
SMALL (0.45-0.69 kg)	5	2	4	2	28	13	15	7	23	11	-	-	75	7
MEDIUM (0.70-1.39 kg)	203	98	167	84	180	86	190	91	174	84	-	-	914	88
LARGE (1.40-1.80 kg)	-	-	26	13	-	-	2	-	10	5	-	-	38	4
JUMBO (> 1.80 kg)	-	-	3	2	-	-	1	-	-	-	-	-	4	-
TOTAL	208		200		209		208		208		-		1033	

Table 10. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1999/00.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT(g) MEAN	DRESSED WEIGHT(g) SD.
6	3	0.6	361	30.8	585	142.9
7	28	5.3	385	19.0	719	121.2
8	32	6.0	398	25.1	783	134.7
9	111	20.8	407	22.2	850	162.6
10	129	24.2	413	21.3	884	159.7
11	124	23.3	421	23.2	947	185.3
12	65	12.2	434	25.5	1009	221.5
13	24	4.5	432	24.0	1015	196.9
14	12	2.3	464	32.3	1272	399.0
15	4	0.8	439	22.0	1065	207.9
16	1	0.2	476	-	1220	-
TOTAL	533					
MEAN			416	27.3	907	205.6
MEAN AGE	10.2					

NO. = Number of fish

Table 11. Age composition of commercial whitefish for each seasonal period from area IW for 1999/00.

AGE (yr)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
6	-	-	-	1	373	630	-	-	-	1	373	-	630	-
7	-	-	-	6	391	762	-	-	-	6	391	12.8	762	87.7
8	-	-	-	7	413	889	-	-	-	7	413	36.1	889	150.3
9	-	-	-	18	431	1038	-	-	-	18	431	32.4	1038	251.2
10	-	-	-	15	431	1047	-	-	-	15	431	26.6	1047	216.3
11	-	-	-	26	440	1117	-	-	-	26	440	23.5	1117	203.7
12	-	-	-	18	455	1173	-	-	-	18	455	27.5	1173	224.0
13	-	-	-	8	439	1093	-	-	-	8	439	25.4	1093	200.1
14	-	-	-	4	481	1368	-	-	-	4	481	37.0	1368	297.4
15	-	-	-	1	469	1360	-	-	-	1	469	-	1360	-
16	-	-	-	1	476	1220	-	-	-	1	476	-	1220	-
TOTAL	-			105			-			105				
MEAN		-	-		436	1074		-	-		436	32.5	1074	241.6
MEAN AGE	-			10.6			-			10.6				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 12. Age composition of commercial whitefish for each seasonal period from area IE for 1999/00.

AGE (yr)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
7	-	-	-	4	384	745	-	-	-	4	384	10.2	745	78.5
8	-	-	-	2	405	880	-	-	-	2	405	28.3	880	226.3
9	-	-	-	23	403	871	-	-	-	23	403	16.3	871	122.4
10	-	-	-	33	419	939	-	-	-	33	419	18.2	939	111.1
11	-	-	-	30	428	1014	-	-	-	30	428	21.8	1014	160.9
12	-	-	-	11	435	1020	-	-	-	11	435	18.8	1020	229.7
13	-	-	-	2	447	1100	-	-	-	2	447	23.3	1100	367.7
14	-	-	-	2	450	985	-	-	-	2	450	4.2	985	21.2
TOTAL	-			107			-			107				
MEAN		-	-		419	949		-	-		419	22.9	949	161.3
MEAN AGE	-			10.3			-			10.3				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 13. Age composition of commercial whitefish for each seasonal period from area II for 1999/00.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
6	-	-	-	1	384	700	-	-	-	1	384	-	700	-
7	-	-	-	14	382	685	-	-	-	14	382	17.6	685	86.1
8	-	-	-	18	395	756	-	-	-	18	395	21.4	756	106.5
9	-	-	-	40	405	810	-	-	-	40	405	15.9	810	81.7
10	-	-	-	19	405	817	-	-	-	19	405	16.7	817	95.9
11	-	-	-	10	422	922	-	-	-	10	422	13.7	922	78.0
12	-	-	-	3	453	1070	-	-	-	3	453	14.0	1070	148.0
13	-	-	-	2	459	1230	-	-	-	2	459	7.8	1230	99.0
14	-	-	-	1	456	1140	-	-	-	1	456	-	1140	-
TOTAL	-			108			-			108				
MEAN		-	-		405	813		-	-		405	23.0	813	133.2
MEAN AGE	-			9.1			-			9.1				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 14. Age composition of commercial whitefish for each seasonal period from area III for 1999/00.

AGE (yr)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
7	-	-	-	1	366	540	-	-	-	1	366	-	540	-
9	-	-	-	17	395	755	-	-	-	17	395	16.1	755	112.3
10	-	-	-	33	412	851	-	-	-	33	412	17.5	851	144.1
11	-	-	-	32	412	850	-	-	-	32	412	15.1	850	101.7
12	-	-	-	16	420	863	-	-	-	16	420	13.7	863	117.3
13	-	-	-	2	428	900	-	-	-	2	428	23.3	900	56.6
14	-	-	-	3	448	1280	-	-	-	3	448	48.8	1280	757.2
TOTAL	-			104			-			104				
MEAN		-	-		411	847		-	-		411	20.1	847	180.5
MEAN AGE	-			10.6			-			10.6				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 15. Age composition of commercial whitefish for each seasonal period from area IV for 1999/00.

AGE (yr)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
6	-	-	-	1	326	425	-	-	-	1	326	-	425	-
7	-	-	-	3	398	815	-	-	-	3	398	40.8	815	277.4
8	-	-	-	5	386	693	-	-	-	5	386	11.9	693	89.5
9	-	-	-	13	401	802	-	-	-	13	401	14.6	802	110.2
10	-	-	-	29	404	819	-	-	-	29	404	21.4	819	151.3
11	-	-	-	26	406	828	-	-	-	26	406	20.8	828	140.7
12	-	-	-	17	420	954	-	-	-	17	420	20.8	954	196.0
13	-	-	-	10	419	917	-	-	-	10	419	20.3	917	143.7
14	-	-	-	2	473	1420	-	-	-	2	473	10.6	1420	275.8
15	-	-	-	3	428	967	-	-	-	3	428	10.4	967	82.5
TOTAL	-			109			-			109				
MEAN		-	-		408	855		-	-		408	24.6	855	184.0
MEAN AGE	-			10.7			-			10.7				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 16. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1999/00.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT(g) MEAN	DRESSED WEIGHT(g) SD.
320-329	1	-	326	-	425	-
330-339	1	-	334	-	450	-
350-359	6	0.6	353	2.0	512	32.0
360-369	15	1.5	364	3.0	593	45.4
370-379	30	2.9	374	3.0	652	45.3
380-389	76	7.4	385	2.8	715	54.4
390-399	125	12.1	395	3.0	770	58.8
400-409	159	15.4	404	2.9	813	65.3
410-419	172	16.7	414	2.7	868	71.7
420-429	157	15.2	423	2.6	945	72.0
430-439	105	10.2	434	2.8	995	95.4
440-449	62	6.0	443	2.7	1069	98.8
450-459	45	4.4	454	2.6	1141	97.2
460-469	29	2.8	464	2.7	1274	119.0
470-479	17	1.6	474	2.9	1360	140.9
480-489	13	1.3	483	2.3	1474	118.4
490-499	7	0.7	493	3.2	1507	151.4
500-509	7	0.7	504	3.1	1622	278.4
510-519	2	0.2	514	0.7	1550	141.4
520-529	3	0.3	524	2.3	1687	142.2
550-559	1	-	558	-	2340	-
TOTAL	1033					
MEAN			418	27.8	913	210.4

NO. = number of fish

Table 17. Length composition of commercial whitefish for each seasonal period from area IW for 1999/00.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
370-379	-	-	-	3	371	640	-	-	-	3	371	1.7	640	10.0
380-389	-	-	-	4	387	740	-	-	-	4	387	3.1	740	42.4
390-399	-	-	-	8	394	826	-	-	-	8	394	3.3	826	81.9
400-409	-	-	-	19	404	879	-	-	-	19	404	2.7	879	71.7
410-419	-	-	-	21	414	905	-	-	-	21	414	2.7	905	63.1
420-429	-	-	-	27	424	976	-	-	-	27	424	2.2	976	46.3
430-439	-	-	-	29	435	1031	-	-	-	29	435	2.6	1031	81.1
440-449	-	-	-	20	445	1108	-	-	-	20	445	2.7	1108	77.8
450-459	-	-	-	20	454	1164	-	-	-	20	454	2.7	1164	101.1
460-469	-	-	-	13	465	1259	-	-	-	13	465	3.0	1259	122.7
470-479	-	-	-	9	473	1319	-	-	-	9	473	2.9	1319	169.2
480-489	-	-	-	10	483	1468	-	-	-	10	483	2.5	1468	110.2
490-499	-	-	-	6	494	1488	-	-	-	6	494	3.1	1488	156.6
500-509	-	-	-	5	505	1538	-	-	-	5	505	3.4	1538	186.7
510-519	-	-	-	2	514	1550	-	-	-	2	514	0.7	1550	141.4
520-529	-	-	-	3	524	1687	-	-	-	3	524	2.3	1687	142.2
550-559	-	-	-	1	558	2340	-	-	-	1	558	-	2340	-
TOTAL	-			200			-			200				
MEAN		-	-		440	1095		-	-		440	33.0	1095	252.4

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 18. Length composition of commercial whitefish for each seasonal period from area IE for 1999/00.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
360-369	-	-	-	1	364	580	-	-	-	1	364	-	580	-
370-379	-	-	-	4	376	688	-	-	-	4	376	1.3	688	62.9
380-389	-	-	-	14	384	762	-	-	-	14	384	2.8	762	78.1
390-399	-	-	-	25	395	808	-	-	-	25	395	3.3	808	54.9
400-409	-	-	-	23	404	863	-	-	-	23	404	2.6	863	52.4
410-419	-	-	-	35	414	897	-	-	-	35	414	2.7	897	96.8
420-429	-	-	-	50	424	971	-	-	-	50	424	2.5	971	69.6
430-439	-	-	-	25	434	1012	-	-	-	25	434	2.9	1012	105.5
440-449	-	-	-	11	446	1143	-	-	-	11	446	2.2	1143	90.1
450-459	-	-	-	9	454	1144	-	-	-	9	454	2.4	1144	96.1
460-469	-	-	-	8	463	1273	-	-	-	8	463	2.1	1273	81.9
470-479	-	-	-	2	478	1355	-	-	-	2	478	0.7	1355	7.1
480-489	-	-	-	1	482	1300	-	-	-	1	482	-	1300	-
TOTAL	-			208			-			208				
MEAN		-	-		419	944		-	-		419	22.0	944	156.5

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 19. Length composition of commercial whitefish for each seasonal period from area II for 1999/00.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
330-339	-	-	-	1	334	450	-	-	-	1	334	-	450	-
350-359	-	-	-	3	352	513	-	-	-	3	352	2.3	513	23.1
360-369	-	-	-	10	364	599	-	-	-	10	364	3.2	599	52.6
370-379	-	-	-	8	375	648	-	-	-	8	375	3.2	648	44.6
380-389	-	-	-	23	386	712	-	-	-	23	386	2.3	712	41.2
390-399	-	-	-	40	395	757	-	-	-	40	395	3.0	757	46.9
400-409	-	-	-	44	404	800	-	-	-	44	404	3.0	800	52.0
410-419	-	-	-	32	414	852	-	-	-	32	414	2.7	852	52.9
420-429	-	-	-	29	423	899	-	-	-	29	423	2.7	899	56.3
430-439	-	-	-	11	434	960	-	-	-	11	434	2.9	960	58.0
440-449	-	-	-	2	443	960	-	-	-	2	443	3.5	960	113.1
450-459	-	-	-	4	455	1118	-	-	-	4	455	1.5	1118	132.3
460-469	-	-	-	2	465	1150	-	-	-	2	465	1.4	1150	212.1
TOTAL	-			209			-			209				
MEAN		-	-		404	802		-	-		404	21.1	802	123.2

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 20. Length composition of commercial whitefish for each seasonal period from area III for 1999/00.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
360-369	-	-	-	1	366	540	-	-	-	1	366	-	540	-
370-379	-	-	-	6	374	665	-	-	-	6	374	2.6	665	43.7
380-389	-	-	-	14	386	709	-	-	-	14	386	2.7	709	28.5
390-399	-	-	-	23	394	750	-	-	-	23	394	3.2	750	65.9
400-409	-	-	-	41	404	780	-	-	-	41	404	2.7	780	58.7
410-419	-	-	-	46	414	845	-	-	-	46	414	2.6	845	55.4
420-429	-	-	-	31	422	917	-	-	-	31	422	2.4	917	87.9
430-439	-	-	-	21	433	936	-	-	-	21	433	2.4	936	96.8
440-449	-	-	-	16	442	977	-	-	-	16	442	1.9	977	65.8
450-459	-	-	-	5	453	1080	-	-	-	5	453	3.5	1080	88.9
460-469	-	-	-	1	464	1370	-	-	-	1	464	-	1370	-
470-479	-	-	-	2	474	1365	-	-	-	2	474	4.2	1365	91.9
500-509	-	-	-	1	502	2150	-	-	-	1	502	-	2150	-
TOTAL	-			208			-			208				
MEAN		-	-		414	855		-	-		414	20.2	855	158.9

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 21. Length composition of commercial whitefish for each seasonal period from area IV for 1999/00.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
320-329	-	-	-	1	326	425	-	-	-	1	326	-	425	-
350-359	-	-	-	3	353	510	-	-	-	3	353	2.0	510	45.0
360-369	-	-	-	3	366	595	-	-	-	3	366	3.5	595	18.0
370-379	-	-	-	9	373	637	-	-	-	9	373	3.3	637	43.7
380-389	-	-	-	21	384	685	-	-	-	21	384	3.0	685	42.8
390-399	-	-	-	29	394	754	-	-	-	29	394	2.8	754	39.1
400-409	-	-	-	32	404	799	-	-	-	32	404	3.2	799	47.2
410-419	-	-	-	38	413	860	-	-	-	38	413	3.0	860	66.3
420-429	-	-	-	20	423	946	-	-	-	20	423	2.9	946	50.7
430-439	-	-	-	19	433	1002	-	-	-	19	433	3.0	1002	88.6
440-449	-	-	-	13	442	1077	-	-	-	13	442	1.7	1077	77.0
450-459	-	-	-	7	453	1126	-	-	-	7	453	2.7	1126	71.4
460-469	-	-	-	5	462	1344	-	-	-	5	462	2.3	1344	119.1
470-479	-	-	-	4	474	1453	-	-	-	4	474	2.8	1453	100.5
480-489	-	-	-	2	481	1590	-	-	-	2	481	1.4	1590	35.4
490-499	-	-	-	1	490	1620	-	-	-	1	490	-	1620	-
500-509	-	-	-	1	501	1515	-	-	-	1	501	-	1515	-
TOTAL	-			208			-			208				
MEAN		-	-		412	878		-	-		412	27.2	878	211.2

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 22. Weight composition by market weight intervals for whitefish from commercial plant samples on Great Slave Lake, 2000/2001.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
SMALL (0.45-0.69 kg)	32	8	22	5	20	10	24	11	61	15	11	5	170	9
MEDIUM (0.70-1.39 kg)	382	91	369	88	186	89	184	88	346	83	189	90	1656	88
LARGE (1.40-1.80 kg)	5	1	25	6	3	1	1	-	7	2	8	4	49	3
JUMBO (> 1.80 kg)	-	-	2	-	-	-	1	-	3	-	1	-	7	-
TOTAL	419		418		209		210		417		209		1882	

Table 23. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 2000/01.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT(g) MEAN	DRESSED WEIGHT(g) SD.
6	1	0.1	376	-	680	-
7	10	1.1	375	26.7	665	161.2
8	58	6.2	395	22.7	772	152.1
9	115	12.2	400	20.5	816	130.6
10	186	19.8	408	22.9	849	143.6
11	252	26.8	411	22.3	889	153.0
12	159	16.9	418	24.8	946	179.3
13	75	8.0	436	27.4	1081	246.4
14	43	4.6	438	25.4	1078	207.1
15	23	2.4	448	33.9	1174	247.0
16	13	1.4	478	37.1	1427	301.9
17	3	0.3	461	26.3	1193	103.7
18	2	0.2	516	92.6	1893	1100
TOTAL	940					
MEAN			414	28.9	913	213.2
MEAN AGE	11.0					

NO. = number of fish

Table 24. Age composition of commercial whitefish for each seasonal period from area IW for 2000/01.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
7	2	414	895	-	-	-	-	-	-	2	414	30.4	895	190.9
8	13	397	794	7	410	920	-	-	-	20	402	27.2	838	172.2
9	12	391	765	16	418	975	-	-	-	28	406	25.9	885	166.7
10	30	401	835	18	433	1051	-	-	-	48	413	27.0	916	169.3
11	29	403	838	17	436	1039	-	-	-	46	415	24.7	913	154.6
12	13	418	922	19	449	1166	-	-	-	32	436	24.5	1067	177.8
13	2	427	995	15	457	1240	-	-	-	17	454	23.8	1211	237.8
14	3	431	1077	7	473	1364	-	-	-	10	460	28.3	1278	192.5
15	1	422	1020	4	481	1413	-	-	-	5	469	29.0	1334	227.9
16	-	-	-	2	478	1385	-	-	-	2	478	36.8	1385	304.1
TOTAL	105			105			-			210				
MEAN		404	846		441	1117		-	-		423	31.8	982	222.6
MEAN AGE	10.3			11.2			-			10.8				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 25. Age composition of commercial whitefish for each seasonal period from area IE for 2000/01.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
7	3	370	627	3	364	610	-	-	-	6	367	9.4	618	82.1
8	9	383	771	1	381	695	-	-	-	10	383	14.1	764	135.0
9	27	396	785	12	405	840	-	-	-	39	399	17.5	802	115.6
10	47	405	826	9	428	979	-	-	-	56	408	17.3	850	125.9
11	51	416	934	11	412	883	-	-	-	62	415	15.9	925	138.9
12	19	419	926	5	429	979	-	-	-	24	421	14.9	937	119.2
13	6	430	1040	2	452	1313	-	-	-	8	436	26.5	1108	298.6
14	1	433	1050	2	436	1063	-	-	-	3	435	2.1	1058	18.9
15	2	485	1415	-	-	-	-	-	-	2	485	18.4	1415	169.7
TOTAL	165			45			-			210				
MEAN		409	874		414	906		-	-		410	22.1	881	167.3
MEAN AGE	10.4			10.3			-			10.4				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 26. Age composition of commercial whitefish for each seasonal period from area II for 2000/01.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
8	3	364	600	-	-	-	-	-	-	3	364	19.1	600	135.3
9	15	389	781	-	-	-	-	-	-	15	389	15.4	781	116.6
10	23	401	811	-	-	-	-	-	-	23	401	18.6	811	96.9
11	39	404	872	-	-	-	-	-	-	39	404	14.9	872	129.2
12	14	415	954	-	-	-	-	-	-	14	415	20.0	954	142.1
13	5	430	1052	-	-	-	-	-	-	5	430	33.2	1052	268.2
14	4	436	1148	-	-	-	-	-	-	4	436	15.5	1148	51.2
TOTAL	103			-			-			103				
MEAN		404	868		-	-		-	-		404	21.6	868	160.1
MEAN AGE	10.7			-			-			10.7				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 27. Age composition of commercial whitefish for each seasonal period from area III for 2000/01.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
6	-	-	-	-	-	-	1	376	680	1	376	-	680	-
8	-	-	-	-	-	-	24	397	742	24	397	18.1	742	124.7
9	-	-	-	-	-	-	20	406	813	20	406	15.4	813	84.5
10	-	-	-	-	-	-	19	424	888	19	424	22.2	888	156.4
11	-	-	-	-	-	-	25	437	1011	25	437	19.2	1011	148.8
12	-	-	-	-	-	-	11	439	1035	11	439	22.1	1035	142.0
13	-	-	-	-	-	-	4	470	1366	4	470	33.6	1366	397.1
14	-	-	-	-	-	-	1	450	1015	1	450	-	1015	-
17	-	-	-	-	-	-	1	475	1175	1	475	-	1175	-
TOTAL	-			-			106			106				
MEAN		-	-		-	-		421	905		421	28.0	905	204.7
MEAN AGE	-			-			10.0			10.0				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 28. Age composition of commercial whitefish for each seasonal period from area IV for 2000/01.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
7	-	-	-	1	383	690	-	-	-	1	383	-	690	-
8	-	-	-	1	409	770	-	-	-	1	409	-	770	-
9	3	367	652	10	398	783	-	-	-	13	391	21.7	753	111.1
10	13	391	762	23	397	753	-	-	-	36	395	20.4	756	97.4
11	27	392	812	30	400	780	-	-	-	57	396	20.1	795	136.5
12	31	403	882	25	402	793	-	-	-	56	403	18.8	842	123.6
13	17	423	1020	11	429	952	-	-	-	28	426	25.1	993	194.9
14	6	425	1052	1	431	1000	-	-	-	7	426	11.9	1044	81.5
15	3	462	1275	1	504	1520	-	-	-	4	473	26.6	1336	210.5
16	3	467	1325	1	565	2105	-	-	-	4	491	54.8	1520	437.9
18	-	-	-	1	581	2670	-	-	-	1	581	-	2670	-
TOTAL	103			105			-			208				
MEAN		406	899		407	834		-	-		406	30.8	866	236.9
MEAN AGE	11.9			11.2			-			11.5				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 29. Age composition of commercial whitefish for each seasonal period from area V for 2000/01.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
7	1	335	455	-	-	-	-	-	-	1	335	-	455	-
10	4	418	903	-	-	-	-	-	-	4	418	15.4	903	85.1
11	23	409	869	-	-	-	-	-	-	23	409	19.5	869	138.1
12	22	420	998	-	-	-	-	-	-	22	420	26.9	998	243.8
13	13	431	1007	-	-	-	-	-	-	13	431	16.8	1007	148.8
14	18	430	971	-	-	-	-	-	-	18	430	25.6	971	214.9
15	12	426	1013	-	-	-	-	-	-	12	426	23.4	1013	168.8
16	7	470	1386	-	-	-	-	-	-	7	470	29.0	1386	250.2
17	2	455	1203	-	-	-	-	-	-	2	455	33.2	1203	145.0
18	1	450	1115	-	-	-	-	-	-	1	450	-	1115	-
TOTAL	103			-			-			103				
MEAN		425	990		-	-		-	-		425	28.6	990	228.4
MEAN AGE	12.9			-			-			12.9				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 30. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 2000/01.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT(g) MEAN	DRESSED WEIGHT(g) SD.
330-339	1	-	335	-	455	-
340-349	6	0.3	344	3.5	532	69.3
350-359	18	1.0	355	2.8	568	61.2
360-369	36	1.9	364	2.8	624	59.0
370-379	96	5.1	374	2.7	669	53.3
380-389	175	9.3	384	2.7	729	59.6
390-399	227	12.1	394	2.8	782	67.0
400-409	287	15.2	404	2.9	830	69.6
410-419	261	13.9	414	2.7	892	77.0
420-429	238	12.6	423	2.7	957	81.3
430-439	196	10.4	433	2.7	1015	98.8
440-449	124	6.6	444	2.6	1102	98.4
450-459	84	4.5	453	2.6	1171	93.3
460-469	47	2.5	463	2.7	1241	103.7
470-479	45	2.4	474	2.6	1317	102.8
480-489	11	0.6	482	2.1	1380	159.1
490-499	13	0.7	494	3.0	1600	163.3
500-509	6	0.3	502	2.0	1607	102.9
510-519	4	0.2	514	0.8	1691	179.9
520-529	4	0.2	525	1.4	1820	168.3
560-569	1	-	565	-	2105	-
580-589	1	-	581	-	2670	-
610-619	1	-	611	-	2850	-
TOTAL	1882					
MEAN			415	29.2	916	214.2

NO. = number of fish

Table 31. Length composition of commercial whitefish for each seasonal period from area IW for 2000/01.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
340-349	2	344	555	-	-	-	-	-	-	2	344	5.7	555	63.6
350-359	1	358	600	-	-	-	-	-	-	1	358	-	600	-
360-369	3	362	637	1	365	695	-	-	-	4	363	1.8	651	61.7
370-379	22	374	670	1	379	775	-	-	-	23	374	2.7	675	54.7
380-389	17	384	721	8	384	765	-	-	-	25	384	3.3	735	47.3
390-399	28	394	796	13	396	859	-	-	-	41	394	2.9	816	66.0
400-409	39	403	834	9	404	864	-	-	-	48	404	2.9	840	56.8
410-419	28	412	894	17	415	931	-	-	-	45	413	2.7	908	55.6
420-429	30	423	954	22	423	980	-	-	-	52	423	2.4	965	88.7
430-439	21	433	1058	24	434	1039	-	-	-	45	434	2.7	1048	81.9
440-449	7	445	1113	21	445	1104	-	-	-	28	445	2.3	1106	53.8
450-459	7	452	1137	25	454	1166	-	-	-	32	453	2.4	1160	76.1
460-469	2	463	1300	21	464	1247	-	-	-	23	464	2.5	1252	80.9
470-479	-	-	-	28	473	1316	-	-	-	28	473	2.4	1316	104.7
480-489	2	481	1250	4	482	1355	-	-	-	6	481	1.8	1320	125.9
490-499	-	-	-	7	493	1532	-	-	-	7	493	2.5	1532	157.1
500-509	-	-	-	3	501	1635	-	-	-	3	501	2.3	1635	145.7
510-519	-	-	-	1	514	1680	-	-	-	1	514	-	1680	-
520-529	-	-	-	4	525	1820	-	-	-	4	525	1.4	1820	168.3
TOTAL	209			209			-			418				
MEAN		407	872		443	1121		-	-		425	33.4	996	235.2

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 32. Length composition of commercial whitefish for each seasonal period from area IE for 2000/01.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
350-359	2	359	570	2	357	563	-	-	-	4	358	1.0	566	11.1
360-369	5	365	639	2	364	585	-	-	-	7	365	3.2	624	75.3
370-379	10	375	677	4	374	691	-	-	-	14	374	2.4	681	47.5
380-389	40	384	726	5	384	744	-	-	-	45	384	2.6	728	56.0
390-399	38	394	779	12	394	785	-	-	-	50	394	2.8	780	74.1
400-409	59	404	836	15	405	874	-	-	-	74	404	2.8	843	60.5
410-419	58	414	905	15	414	899	-	-	-	73	414	2.8	904	79.7
420-429	47	424	954	11	424	938	-	-	-	58	424	2.9	951	78.6
430-439	33	434	1037	15	433	979	-	-	-	48	434	2.6	1019	83.1
440-449	21	443	1119	6	442	1114	-	-	-	27	443	2.1	1118	101.3
450-459	11	453	1218	1	450	1220	-	-	-	12	453	2.6	1218	128.2
460-469	1	463	1035	-	-	-	-	-	-	1	463	-	1035	-
470-479	2	475	1280	1	471	1245	-	-	-	3	474	3.8	1268	25.2
490-499	1	498	1535	1	493	1805	-	-	-	2	496	3.5	1670	190.9
500-509	1	500	1625	-	-	-	-	-	-	1	500	-	1625	-
TOTAL	329			90			-			419				
MEAN		412	894		412	897		-	-		412	22.8	895	167.6

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 33. Length composition of commercial whitefish for each seasonal period from area II for 2000/01.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
340-349	2	342	475	-	-	-	-	-	-	2	342	2.1	475	21.2
350-359	4	356	598	-	-	-	-	-	-	4	356	1.2	598	61.3
360-369	6	366	623	-	-	-	-	-	-	6	366	3.0	623	52.4
370-379	11	374	685	-	-	-	-	-	-	11	374	2.9	685	47.6
380-389	21	384	762	-	-	-	-	-	-	21	384	2.2	762	63.0
390-399	35	394	780	-	-	-	-	-	-	35	394	2.8	780	53.2
400-409	41	403	848	-	-	-	-	-	-	41	403	2.8	848	75.5
410-419	32	414	919	-	-	-	-	-	-	32	414	3.1	919	81.8
420-429	30	423	965	-	-	-	-	-	-	30	423	2.7	965	83.3
430-439	12	434	1072	-	-	-	-	-	-	12	434	3.0	1072	101.7
440-449	8	442	1225	-	-	-	-	-	-	8	442	3.0	1225	133.4
450-459	4	458	1195	-	-	-	-	-	-	4	458	1.0	1195	83.5
460-469	2	462	1430	-	-	-	-	-	-	2	462	0.7	1430	113.1
480-489	1	482	1510	-	-	-	-	-	-	1	482	-	1510	-
TOTAL	209			-			-			209				
MEAN		405	875		-	-		-	-		405	22.9	875	174.5

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 34. Length composition of commercial whitefish for each seasonal period from area III for 2000/01.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
350-359	-	-	-	-	-	-	1	355	465	1	355	-	465	-
360-369	-	-	-	-	-	-	1	366	585	1	366	-	585	-
370-379	-	-	-	-	-	-	9	376	642	9	376	2.5	642	48.5
380-389	-	-	-	-	-	-	14	384	675	14	384	2.5	675	50.9
390-399	-	-	-	-	-	-	26	394	762	26	394	2.6	762	70.6
400-409	-	-	-	-	-	-	28	403	770	28	403	2.5	770	68.5
410-419	-	-	-	-	-	-	30	413	832	30	413	2.5	832	54.2
420-429	-	-	-	-	-	-	24	422	915	24	422	2.7	915	60.3
430-439	-	-	-	-	-	-	26	433	939	26	433	2.5	939	89.6
440-449	-	-	-	-	-	-	25	444	1032	25	444	2.7	1032	93.2
450-459	-	-	-	-	-	-	10	453	1090	10	453	3.3	1090	108.3
460-469	-	-	-	-	-	-	8	463	1191	8	463	3.2	1191	102.8
470-479	-	-	-	-	-	-	5	474	1270	5	474	2.8	1270	61.2
480-489	-	-	-	-	-	-	1	482	1190	1	482	-	1190	-
490-499	-	-	-	-	-	-	1	499	1550	1	499	-	1550	-
510-519	-	-	-	-	-	-	1	514	1920	1	514	-	1920	-
TOTAL	-			-			210			210				
MEAN		-	-		-	-		419	887		419	26.7	887	189.5

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 35. Length composition of commercial whitefish for each seasonal period from area IV for 2000/01.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
340-349	1	347	635	1	346	495	-	-	-	2	347	0.7	565	99.0
350-359	-	-	-	8	354	563	-	-	-	8	354	3.1	563	72.4
360-369	11	365	632	5	362	590	-	-	-	16	364	2.8	619	60.4
370-379	16	374	696	17	375	630	-	-	-	33	375	3.0	662	58.7
380-389	29	383	755	28	383	699	-	-	-	57	383	2.3	727	60.7
390-399	33	394	814	27	392	732	-	-	-	60	393	2.6	777	65.2
400-409	34	403	860	41	404	788	-	-	-	75	404	3.1	820	65.0
410-419	26	413	900	31	413	853	-	-	-	57	413	2.5	874	66.5
420-429	26	423	980	14	424	910	-	-	-	40	423	2.6	956	78.3
430-439	11	434	1090	18	433	960	-	-	-	29	434	2.9	1009	110.0
440-449	8	443	1133	7	443	1036	-	-	-	15	443	2.8	1088	80.7
450-459	6	453	1192	4	454	1170	-	-	-	10	453	2.7	1183	76.0
460-469	2	463	1300	3	461	1143	-	-	-	5	462	2.6	1206	110.8
470-479	2	474	1370	1	472	1430	-	-	-	3	473	2.3	1390	134.5
480-489	1	486	1550	1	485	1365	-	-	-	2	486	0.7	1458	130.8
500-509	1	501	1590	1	504	1520	-	-	-	2	503	2.1	1555	49.5
560-569	-	-	-	1	565	2105	-	-	-	1	565	-	2105	-
580-589	-	-	-	1	581	2670	-	-	-	1	581	-	2670	-
610-619	-	-	-	1	611	2850	-	-	-	1	611	-	2850	-
TOTAL	207			210			-			417				
MEAN		405	881		406	829		-	-		405	29.9	855	227.0

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 36. Length composition of commercial whitefish for each seasonal period from area V for 2000/01.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
330-339	1	335	455	-	-	-	-	-	-	1	335	-	455	-
360-369	2	361	638	-	-	-	-	-	-	2	361	1.4	638	53.0
370-379	6	376	670	-	-	-	-	-	-	6	376	2.0	670	42.2
380-389	13	386	733	-	-	-	-	-	-	13	386	2.2	733	58.3
390-399	15	394	757	-	-	-	-	-	-	15	394	2.7	757	46.7
400-409	21	404	841	-	-	-	-	-	-	21	404	2.8	841	88.6
410-419	24	414	911	-	-	-	-	-	-	24	414	2.7	911	99.6
420-429	34	423	982	-	-	-	-	-	-	34	423	2.7	982	81.2
430-439	36	433	1008	-	-	-	-	-	-	36	433	2.6	1008	105.5
440-449	21	444	1124	-	-	-	-	-	-	21	444	2.7	1124	89.6
450-459	16	452	1193	-	-	-	-	-	-	16	452	1.9	1193	71.2
460-469	8	464	1263	-	-	-	-	-	-	8	464	2.9	1263	98.7
470-479	6	474	1351	-	-	-	-	-	-	6	474	3.8	1351	122.9
480-489	1	482	1645	-	-	-	-	-	-	1	482	-	1645	-
490-499	3	494	1730	-	-	-	-	-	-	3	494	3.8	1730	141.8
510-519	2	514	1583	-	-	-	-	-	-	2	514	1.4	1583	145.0
TOTAL	209			-			-			209				
MEAN		425	989		-	-		-	-		425	27.7	989	221.0

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 37. Weight composition by market weight intervals for whitefish from commercial plant samples on Great Slave Lake, 2001/02.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	-	-	-	-	1	-	-	-	-	-	-	-	1	-
SMALL (0.45-0.69 kg)	7	6	37	18	33	16	11	5	24	11	5	2	117	10
MEDIUM (0.70-1.39 kg)	113	93	169	80	173	82	194	93	181	87	198	95	1028	88
LARGE (1.40-1.80 kg)	1	-	4	2	3	1	3	1	4	2	5	2	20	2
TOTAL	121		210		210		208		209		208		1166	

Table 38. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 2001/02.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT(g) MEAN	DRESSED WEIGHT(g) SD.
6	4	0.7	355	25.1	581	112.6
7	14	2.4	379	13.8	680	91.3
8	72	12.3	398	19.5	793	126.5
9	102	17.4	401	17.4	809	121.6
10	112	19.1	408	17.3	838	107.8
11	101	17.2	411	18.7	865	132.4
12	87	14.8	421	20.7	930	160.4
13	50	8.5	428	18.8	981	134.2
14	24	4.1	440	26.7	1062	225.1
15	17	2.9	439	20.8	1060	179.7
16	3	0.5	452	11.2	1157	33.3
17	1	0.2	476	-	1355	-
TOTAL	587					
MEAN			411	23.6	870	161.4
MEAN AGE	10.6					

NO. = number of fish

Table 39. Age composition of commercial whitefish for each seasonal period from area IW for 2001/02.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
7	3	364	567	-	-	-	-	-	-	3	364	3.6	567	51.3
8	15	388	714	-	-	-	-	-	-	15	388	12.5	714	99.0
9	22	401	771	-	-	-	-	-	-	22	401	21.3	771	142.2
10	27	401	782	-	-	-	-	-	-	27	401	16.8	782	110.8
11	18	411	865	-	-	-	-	-	-	18	411	22.8	865	187.9
12	14	426	960	-	-	-	-	-	-	14	426	18.8	960	214.7
13	3	441	1035	-	-	-	-	-	-	3	441	16.8	1035	87.9
14	2	448	1125	-	-	-	-	-	-	2	448	5.7	1125	63.6
15	1	446	975	-	-	-	-	-	-	1	446	-	975	-
TOTAL	105			-			-			105				
MEAN		405	818		-	-		-	-		405	23.9	818	175.8
MEAN AGE	10.1			-			-			10.1				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 40. Age composition of commercial whitefish for each seasonal period from area IE for 2001/02.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
9	15	394	840	-	-	-	-	-	-	15	394	17.9	840	164.0
10	9	414	923	-	-	-	-	-	-	9	414	17.8	923	97.6
11	19	413	907	-	-	-	-	-	-	19	413	12.7	907	115.1
12	14	421	958	-	-	-	-	-	-	14	421	20.4	958	169.7
13	3	439	1088	-	-	-	-	-	-	3	439	8.1	1088	128.5
14	1	443	1075	-	-	-	-	-	-	1	443	-	1075	-
TOTAL	61			-			-			61				
MEAN		412	916		-	-		-	-		412	20.2	916	148.6
MEAN AGE	10.7			-			-			10.7				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 41. Age composition of commercial whitefish for each seasonal period from area II for 2001/02.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
6	-	-	-	1	366	645	2	341	505	3	349	28.0	552	117.3
7	-	-	-	1	372	640	5	383	693	6	381	10.9	684	55.5
8	-	-	-	13	397	774	13	394	778	26	396	22.1	776	110.9
9	-	-	-	20	400	775	7	392	784	27	398	11.4	778	73.8
10	-	-	-	12	410	852	12	412	868	24	411	18.4	860	98.2
11	-	-	-	8	415	879	3	432	940	11	419	13.0	896	48.4
12	-	-	-	3	447	1070	3	414	910	6	431	25.1	990	205.3
15	-	-	-	1	494	1540	-	-	-	1	494	-	1540	-
TOTAL	-			59			45			104				
MEAN		-	-		406	828		399	801		403	24.4	816	145.0
MEAN AGE	-			9.4			9.0			9.2				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 42. Age composition of commercial whitefish for each seasonal period from area III for 2001/02.

AGE (yr)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
7	-	-	-	4	382	729	-	-	-	4	382	18.1	729	93.8
8	-	-	-	29	406	857	-	-	-	29	406	17.2	857	125.6
9	-	-	-	26	406	850	-	-	-	26	406	18.2	850	111.6
10	-	-	-	23	410	861	-	-	-	23	410	11.8	861	93.7
11	-	-	-	10	421	914	-	-	-	10	421	12.3	914	110.3
12	-	-	-	8	413	886	-	-	-	8	413	27.1	886	176.9
13	-	-	-	2	422	1005	-	-	-	2	422	22.6	1005	190.9
15	-	-	-	1	461	1190	-	-	-	1	461	-	1190	-
TOTAL	-			103			-			103				
MEAN		-	-		409	865		-	-		409	18.7	865	124.9
MEAN AGE	-			9.4			-			9.4				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 43. Age composition of commercial whitefish for each seasonal period from area IV for 2001/02.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
6	-	-	-	-	-	-	1	370	670	1	370	-	670	-
7	-	-	-	-	-	-	1	390	795	1	390	-	795	-
8	-	-	-	-	-	-	2	381	680	2	381	0.7	680	63.6
9	-	-	-	-	-	-	10	403	800	10	403	17.6	800	102.5
10	-	-	-	-	-	-	26	408	821	26	408	20.2	821	107.8
11	-	-	-	-	-	-	29	405	827	29	405	20.5	827	131.2
12	-	-	-	-	-	-	20	418	896	20	418	20.4	896	133.8
13	-	-	-	-	-	-	17	423	946	17	423	22.4	946	141.6
14	-	-	-	-	-	-	2	457	1208	2	457	33.2	1208	350.0
15	-	-	-	-	-	-	2	409	805	2	409	12.0	805	49.5
TOTAL	-			-			110			110				
MEAN		-	-		-	-		411	856		411	22.5	856	144.2
MEAN AGE	-			-			11.1			11.1				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 44. Age composition of commercial whitefish for each seasonal period from area V for 2001/02.

AGE	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
(yr)	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
9	2	412	905	-	-	-	-	-	-	2	412	19.1	905	84.9
10	3	406	873	-	-	-	-	-	-	3	406	5.1	873	53.0
11	14	407	824	-	-	-	-	-	-	14	407	19.9	824	112.2
12	25	421	925	-	-	-	-	-	-	25	421	19.3	925	126.7
13	25	429	984	-	-	-	-	-	-	25	429	16.6	984	130.9
14	19	438	1039	-	-	-	-	-	-	19	438	28.4	1039	233.2
15	12	438	1058	-	-	-	-	-	-	12	438	11.0	1058	108.5
16	3	452	1157	-	-	-	-	-	-	3	452	11.2	1157	33.3
17	1	476	1355	-	-	-	-	-	-	1	476	-	1355	-
TOTAL	104			-			-			104				
MEAN		427	971		-	-		-	-		427	22.8	971	168.2
MEAN AGE	12.9			-			-			12.9				

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 45. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 2001/02.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT(g) MEAN	DRESSED WEIGHT(g) SD.
310-319	1	-	317	-	420	-
340-349	1	-	348	-	525	-
350-359	6	0.5	356	2.9	579	86.8
360-369	25	2.1	364	2.7	613	56.1
370-379	60	5.1	374	2.9	670	46.6
380-389	115	9.9	384	2.8	710	51.0
390-399	172	14.8	394	2.9	769	59.3
400-409	181	15.5	404	2.9	823	62.8
410-419	171	14.7	414	3.0	884	69.0
420-429	170	14.6	424	2.6	938	72.4
430-439	112	9.6	433	2.7	983	76.4
440-449	77	6.6	443	2.5	1060	88.0
450-459	33	2.8	454	2.4	1136	103.1
460-469	17	1.5	464	2.5	1252	122.4
470-479	11	0.9	472	2.8	1365	111.0
480-489	5	0.4	481	1.3	1323	112.8
490-499	5	0.4	493	2.2	1490	113.9
520-529	4	0.3	524	1.7	1630	94.2
TOTAL	1166					
MEAN			411	25.3	874	169.3

NO. = number of fish

Table 46. Length composition of commercial whitefish for each seasonal period from area IW for 2001/02.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
350-359	1	356	520	-	-	-	-	-	-	1	356	-	520	-
360-369	7	364	564	-	-	-	-	-	-	7	364	2.4	564	31.3
370-379	11	374	640	-	-	-	-	-	-	11	374	2.7	640	41.0
380-389	29	384	685	-	-	-	-	-	-	29	384	3.0	685	40.8
390-399	43	394	740	-	-	-	-	-	-	43	394	3.0	740	49.9
400-409	40	402	797	-	-	-	-	-	-	40	402	2.5	797	59.8
410-419	22	413	844	-	-	-	-	-	-	22	413	2.3	844	50.9
420-429	24	423	914	-	-	-	-	-	-	24	423	2.2	914	60.7
430-439	10	432	965	-	-	-	-	-	-	10	432	1.3	965	61.3
440-449	11	444	1051	-	-	-	-	-	-	11	444	2.7	1051	83.7
450-459	5	453	1139	-	-	-	-	-	-	5	453	2.3	1139	43.8
460-469	4	462	1270	-	-	-	-	-	-	4	462	3.5	1270	152.2
470-479	2	471	1513	-	-	-	-	-	-	2	471	0.7	1513	102.5
480-489	1	483	1420	-	-	-	-	-	-	1	483	-	1420	-
TOTAL	210			-			-			210				
MEAN		405	819		-	-		-	-		405	23.6	819	169.9

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 47. Length composition of commercial whitefish for each seasonal period from area IE for 2001/02.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
350-359	1	357	740	-	-	-	-	-	-	1	357	-	740	-
360-369	2	364	655	-	-	-	-	-	-	2	364	5.7	655	134.4
370-379	7	376	716	-	-	-	-	-	-	7	376	3.2	716	53.8
380-389	8	384	745	-	-	-	-	-	-	8	384	3.2	745	52.6
390-399	19	393	802	-	-	-	-	-	-	19	393	2.3	802	83.0
400-409	29	405	878	-	-	-	-	-	-	29	405	2.9	878	66.6
410-419	11	414	918	-	-	-	-	-	-	11	414	3.1	918	72.5
420-429	23	424	972	-	-	-	-	-	-	23	424	2.7	972	89.5
430-439	10	433	1048	-	-	-	-	-	-	10	433	2.2	1048	94.4
440-449	10	443	1078	-	-	-	-	-	-	10	443	2.1	1078	70.4
470-479	1	471	1410	-	-	-	-	-	-	1	471	-	1410	-
TOTAL	121			-			-			121				
MEAN		409	900		-	-		-	-		409	20.7	900	139.8

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 48. Length composition of commercial whitefish for each seasonal period from area II for 2001/02.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
310-319	-	-	-	-	-	-	1	317	420	1	317	-	420	-
340-349	-	-	-	-	-	-	1	348	525	1	348	-	525	-
350-359	-	-	-	-	-	-	2	352	533	2	352	1.4	533	46.0
360-369	-	-	-	8	365	632	4	365	631	12	365	2.9	632	48.3
370-379	-	-	-	9	373	656	9	374	671	18	373	2.8	663	30.8
380-389	-	-	-	12	383	701	14	385	730	26	384	3.0	716	35.8
390-399	-	-	-	20	395	764	14	394	775	34	395	2.9	769	49.6
400-409	-	-	-	8	402	799	10	405	830	18	404	3.2	816	49.7
410-419	-	-	-	16	413	860	16	412	882	32	413	3.0	871	59.4
420-429	-	-	-	29	423	913	7	423	921	36	423	2.3	914	50.4
430-439	-	-	-	6	436	1004	6	433	976	12	434	2.9	990	62.9
440-449	-	-	-	6	443	1041	2	445	1000	8	444	2.2	1031	66.0
450-459	-	-	-	3	456	1263	2	454	1090	5	455	3.0	1194	149.8
460-469	-	-	-	1	465	1130	1	465	1395	2	465	0.0	1263	187.4
470-479	-	-	-	1	470	1390	1	476	1290	2	473	4.2	1340	70.7
490-499	-	-	-	1	494	1540	-	-	-	1	494	-	1540	-
TOTAL	-			120			90			210				
MEAN		-	-		408	845		400	814		405	26.3	831	161.9

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 49. Length composition of commercial whitefish for each seasonal period from area III for 2001/02.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
370-379	-	-	-	10	373	701	-	-	-	10	373	2.8	701	45.1
380-389	-	-	-	21	384	721	-	-	-	21	384	2.8	721	68.6
390-399	-	-	-	32	394	789	-	-	-	32	394	3.0	789	62.4
400-409	-	-	-	39	403	831	-	-	-	39	403	2.8	831	61.4
410-419	-	-	-	38	414	904	-	-	-	38	414	2.8	904	72.4
420-429	-	-	-	32	423	943	-	-	-	32	423	3.1	943	83.8
430-439	-	-	-	19	434	995	-	-	-	19	434	2.8	995	94.5
440-449	-	-	-	7	443	987	-	-	-	7	443	2.4	987	54.1
450-459	-	-	-	1	452	1200	-	-	-	1	452	-	1200	-
460-469	-	-	-	3	464	1278	-	-	-	3	464	3.1	1278	85.2
470-479	-	-	-	2	474	1255	-	-	-	2	474	4.9	1255	148.5
480-489	-	-	-	1	480	1190	-	-	-	1	480	-	1190	-
490-499	-	-	-	1	496	1625	-	-	-	1	496	-	1625	-
520-529	-	-	-	2	524	1625	-	-	-	2	524	2.8	1625	7.1
TOTAL	-			208			-			208				
MEAN		-	-		412	883		-	-		412	24.1	883	160.2

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 50. Length composition of commercial whitefish for each seasonal period from area IV for 2001/02.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
350-359	-	-	-	-	-	-	2	358	575	2	358	1.4	575	42.4
360-369	-	-	-	-	-	-	4	363	623	4	363	1.0	623	15.5
370-379	-	-	-	-	-	-	10	373	658	10	373	3.2	658	48.6
380-389	-	-	-	-	-	-	24	384	709	24	384	2.8	709	50.5
390-399	-	-	-	-	-	-	33	395	765	33	395	3.0	765	50.7
400-409	-	-	-	-	-	-	36	404	810	36	404	3.0	810	51.9
410-419	-	-	-	-	-	-	30	414	878	30	414	3.1	878	69.3
420-429	-	-	-	-	-	-	22	425	972	22	425	2.5	972	71.7
430-439	-	-	-	-	-	-	21	433	961	21	433	3.3	961	49.6
440-449	-	-	-	-	-	-	11	443	1027	11	443	2.1	1027	61.0
450-459	-	-	-	-	-	-	8	454	1076	8	454	1.7	1076	88.2
460-469	-	-	-	-	-	-	2	465	1120	2	465	0.0	1120	49.5
470-479	-	-	-	-	-	-	1	473	1345	1	473	-	1345	-
480-489	-	-	-	-	-	-	2	480	1350	2	480	0.0	1350	148.5
490-499	-	-	-	-	-	-	2	493	1485	2	493	2.1	1485	21.2
520-529	-	-	-	-	-	-	1	524	1750	1	524	-	1750	-
TOTAL	-			-			209			209				
MEAN		-	-		-	-		411	863		411	26.4	863	169.9

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g

Table 51. Length composition of commercial whitefish for each seasonal period from area V for 2001/02.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
											FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	LEN.	WT.	NO.	MEAN	SD.	MEAN	SD.
370-379	4	376	661	-	-	-	-	-	-	4	376	2.2	661	23.2
380-389	7	385	711	-	-	-	-	-	-	7	385	2.2	711	47.6
390-399	11	393	771	-	-	-	-	-	-	11	393	3.0	771	43.1
400-409	19	404	815	-	-	-	-	-	-	19	404	2.6	815	46.9
410-419	38	414	891	-	-	-	-	-	-	38	414	3.1	891	71.5
420-429	33	424	933	-	-	-	-	-	-	33	424	2.4	933	62.4
430-439	40	434	974	-	-	-	-	-	-	40	434	2.6	974	74.8
440-449	30	444	1093	-	-	-	-	-	-	30	444	2.9	1093	101.1
450-459	14	454	1144	-	-	-	-	-	-	14	454	2.6	1144	102.7
460-469	6	463	1268	-	-	-	-	-	-	6	463	2.1	1268	125.1
470-479	3	472	1350	-	-	-	-	-	-	3	472	3.2	1350	82.6
480-489	1	480	1305	-	-	-	-	-	-	1	480	-	1305	-
490-499	1	491	1315	-	-	-	-	-	-	1	491	-	1315	-
520-529	1	525	1520	-	-	-	-	-	-	1	525	-	1520	-
TOTAL	208			-			-			208				
MEAN		426	961		-	-		-	-		426	22.4	961	163.1

NO. = number of fish
LEN. = mean fork length in mm
WT. = mean dressed weight in g